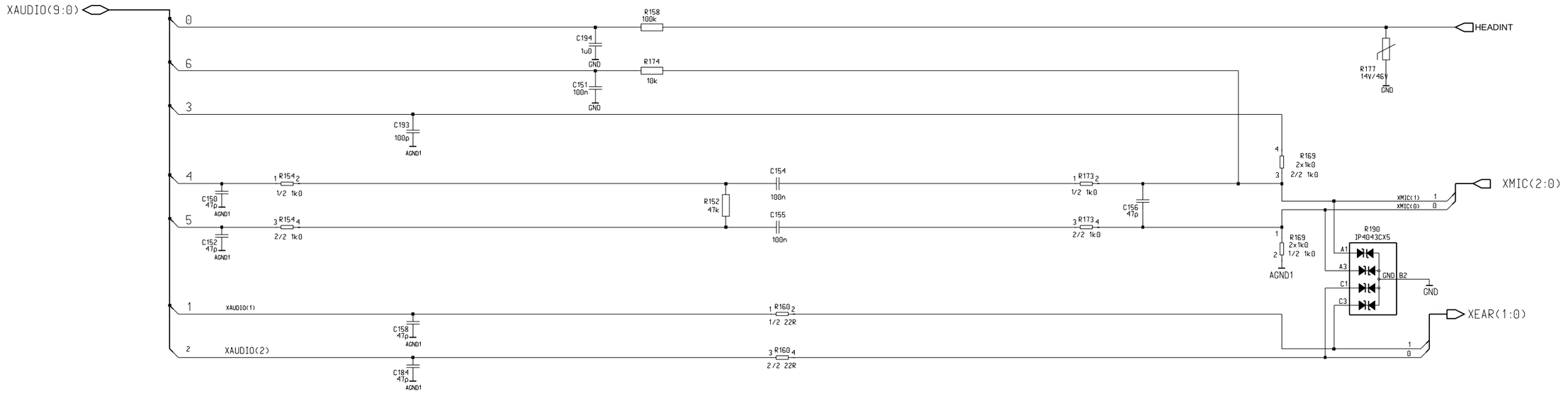
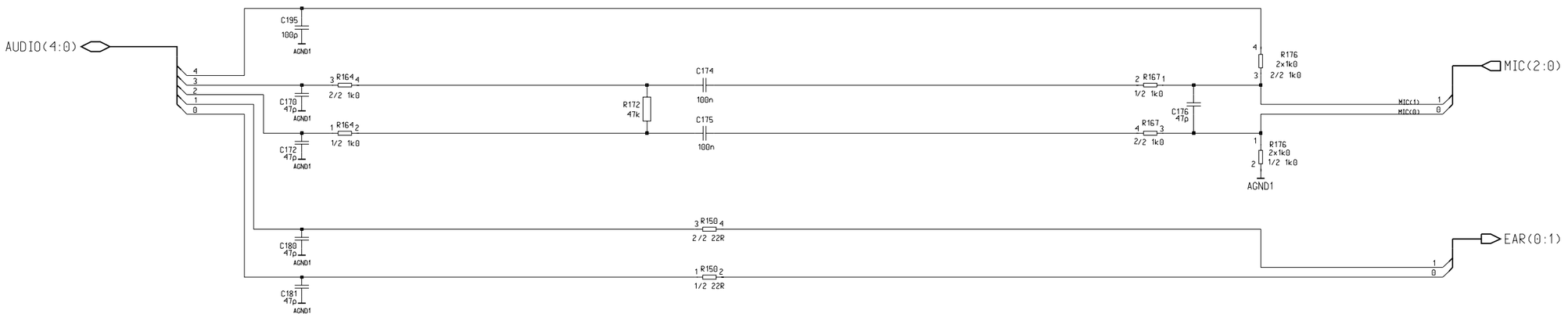
Audio





AUDIO

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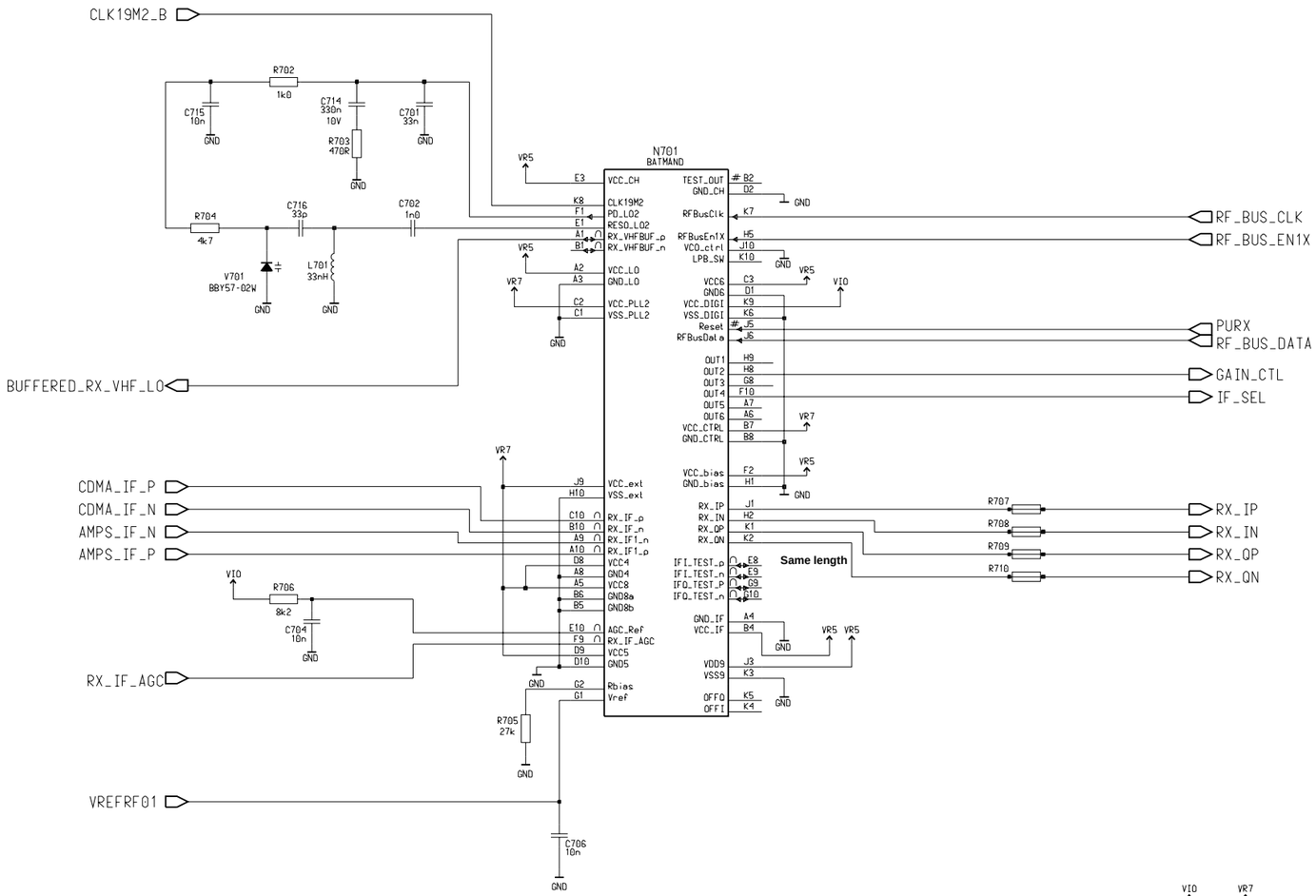
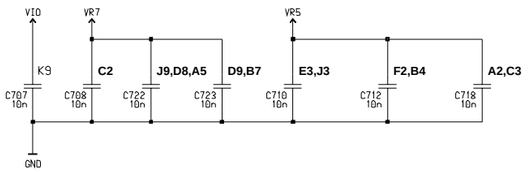
Circuit Diagram of RX





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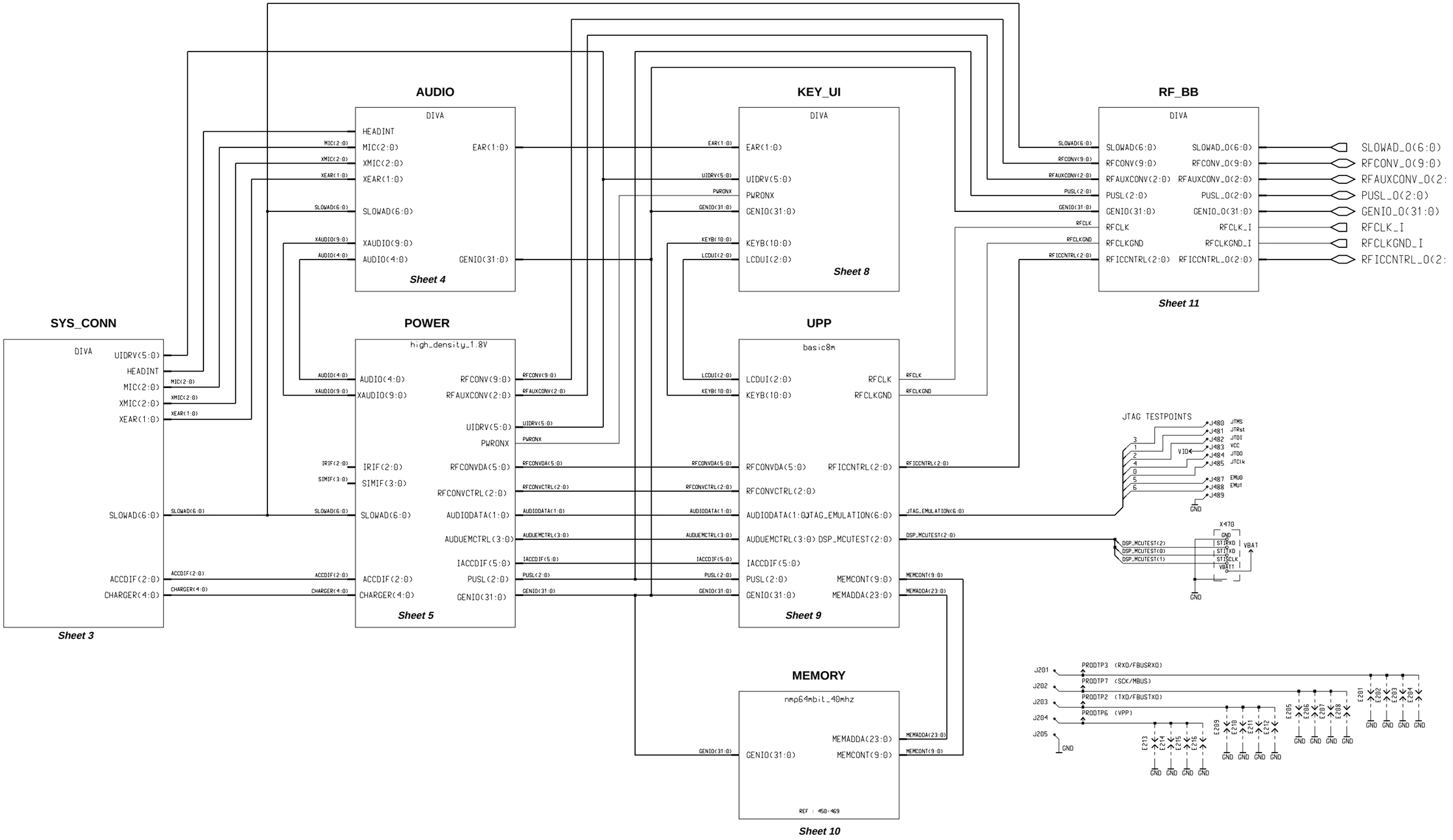
Circuit Diagram of BB

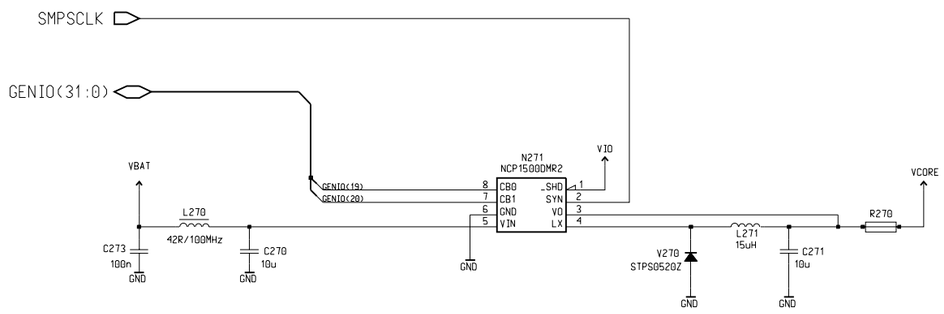


Components: 420-439
Components: 300-349
Components: 350-355
POWER Components: 200-299
STEPUP Components:260-269
DC/DC Components:270-299
AUDIO Components: 150-199
ANCO Components: 170-199

SYS_CONN Components: 100-129
HEADSET Components: 120-129
Components: 400-419

17

DC/DC Converter



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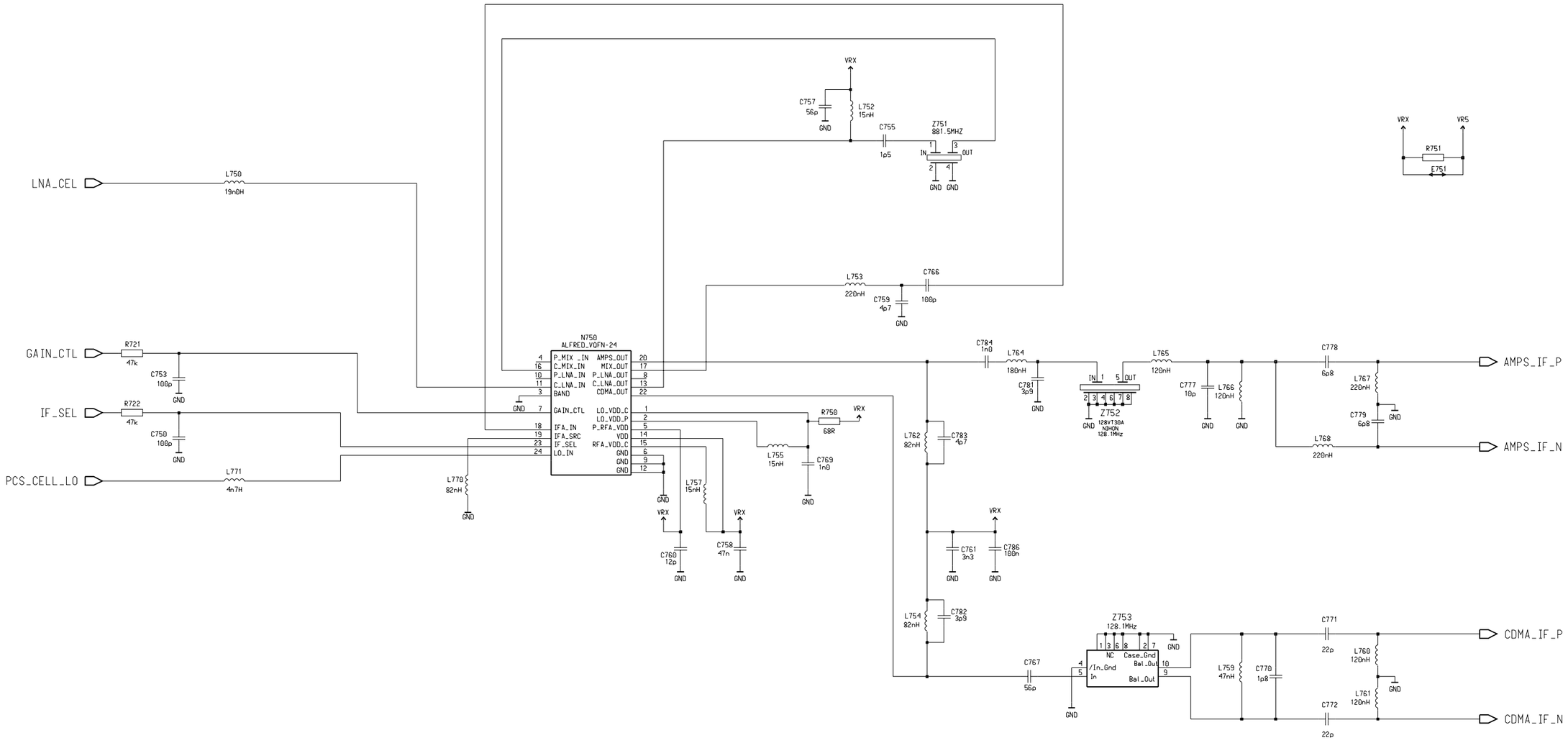
Circuit Diagram of RX front end



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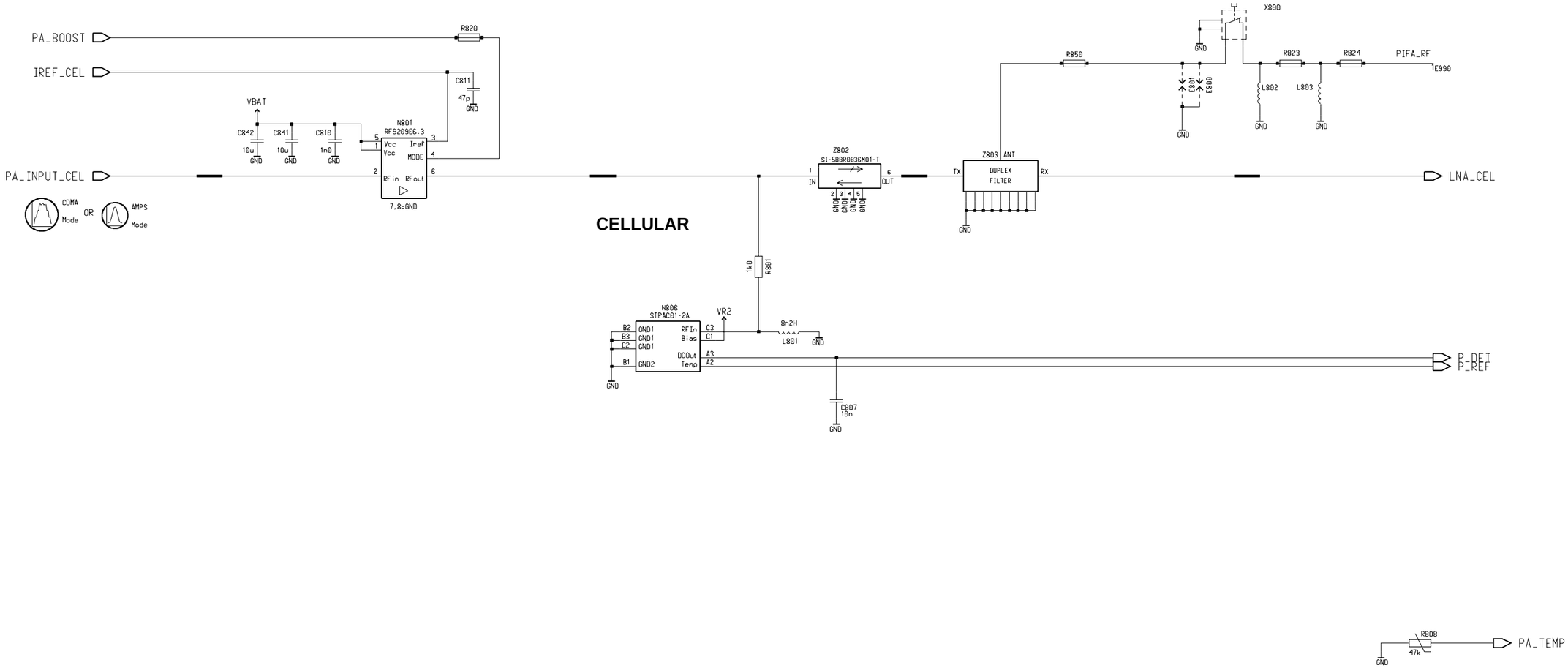
Circuit Diagram of PA



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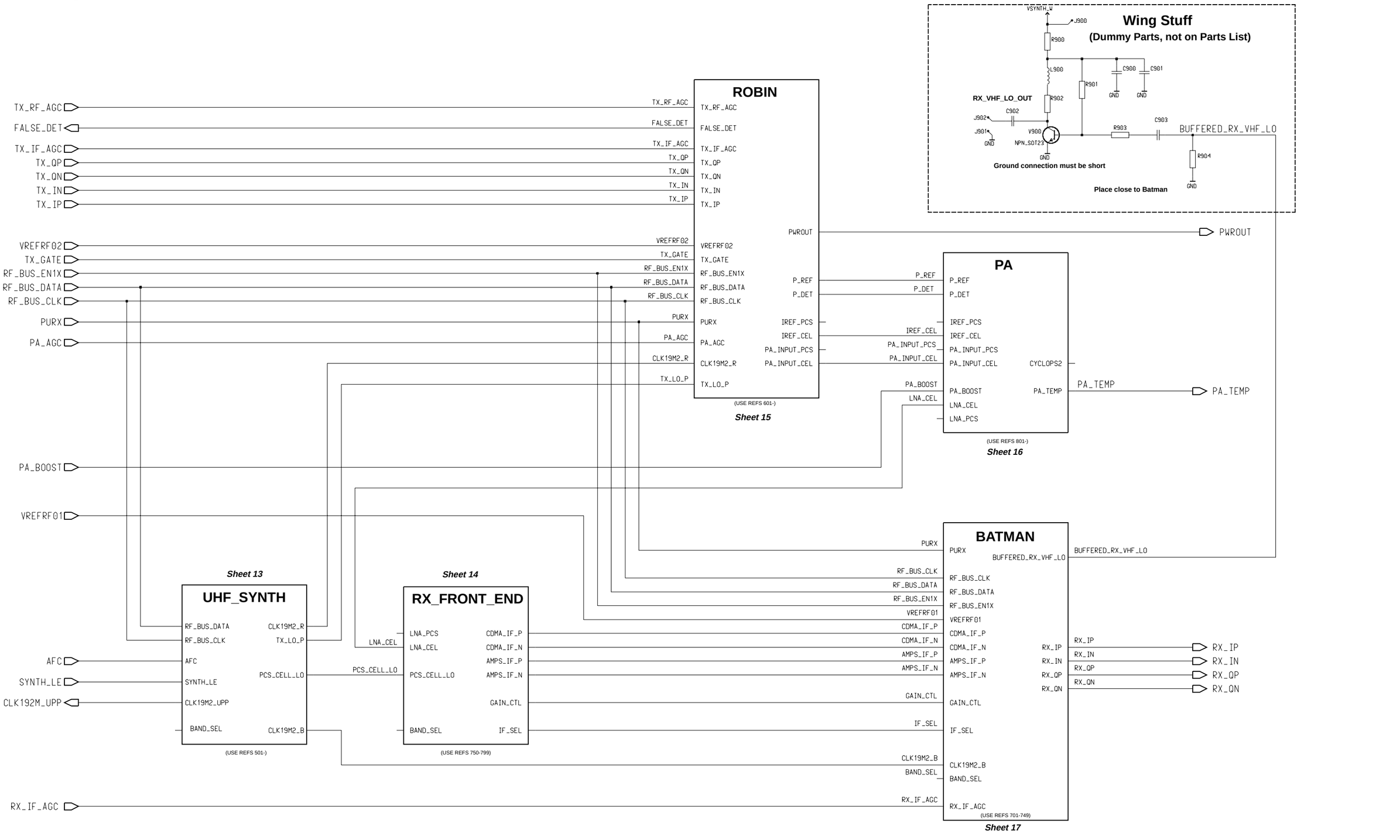
Circuit Diagram of RF



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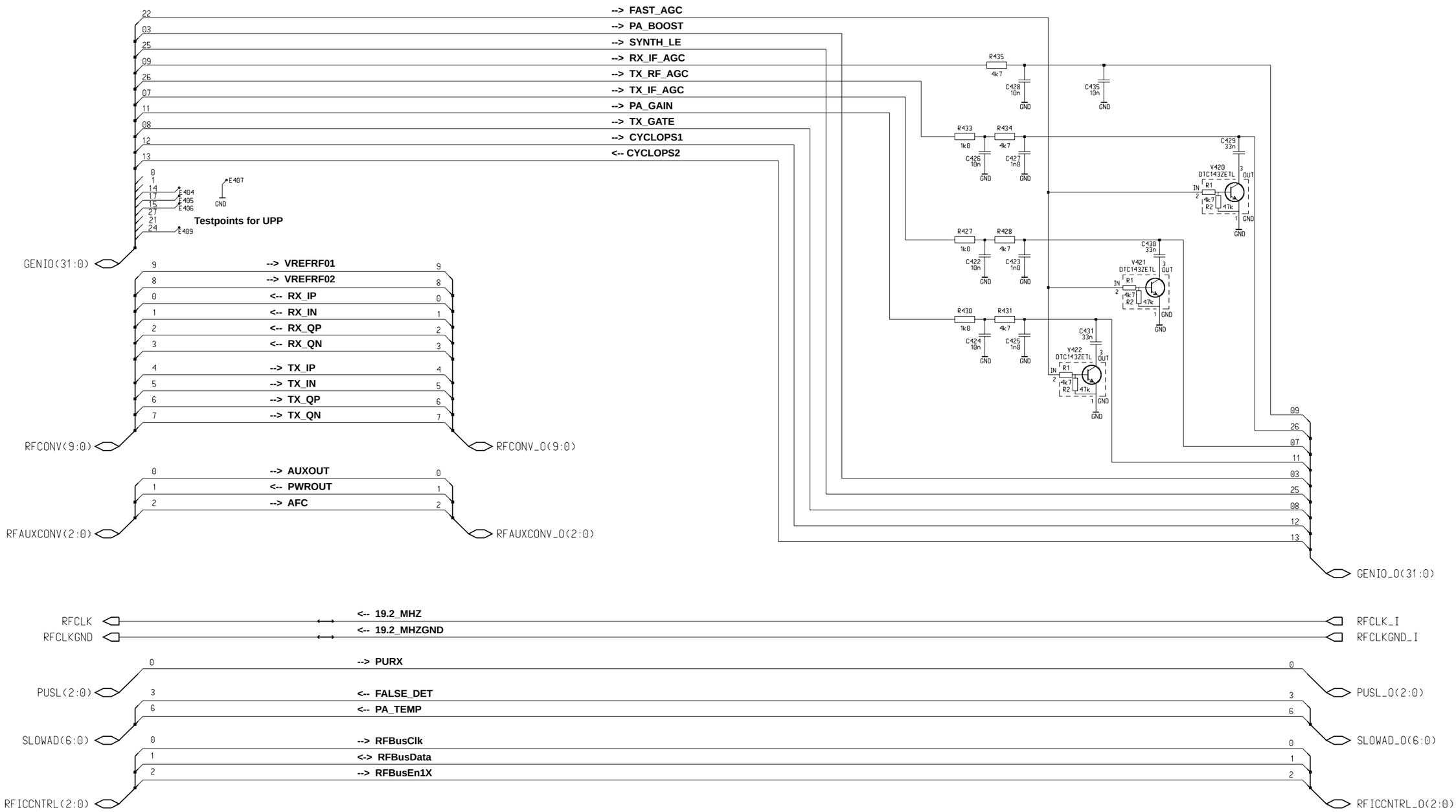
RF-BB



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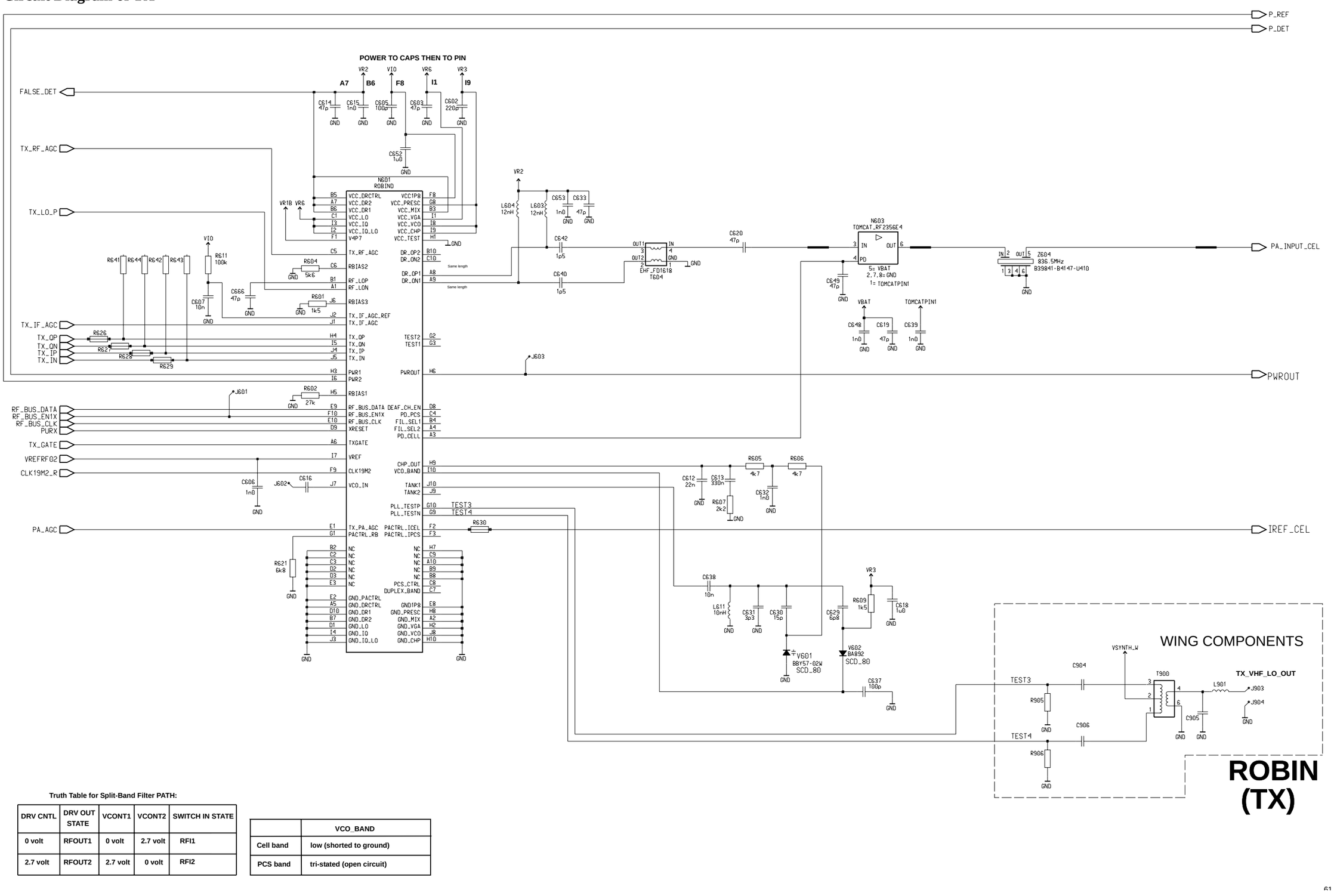
Circuit Diagram of TX



Truth Table for Split-Band Filter PATH:

DRV CNTL	DRV OUT STATE	VCONT1	VCONT2	SWITCH IN STATE
0 volt	RFOUT1	0 volt	2.7 volt	RFI1
2.7 volt	RFOUT2	2.7 volt	0 volt	RFI2

	VCO_BAND
Cell band	low (shorted to ground)
PCS band	tri-stated (open circuit)

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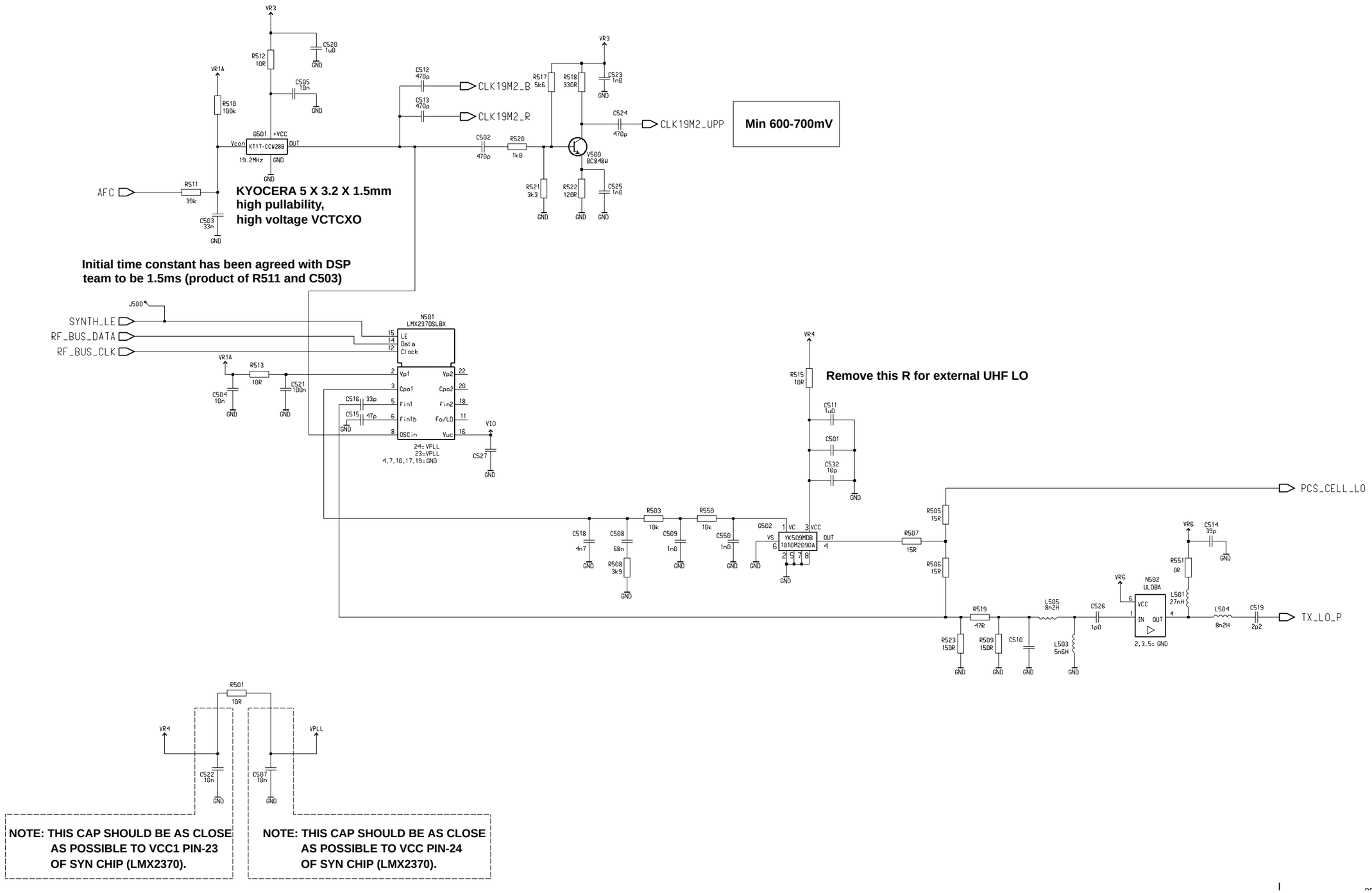
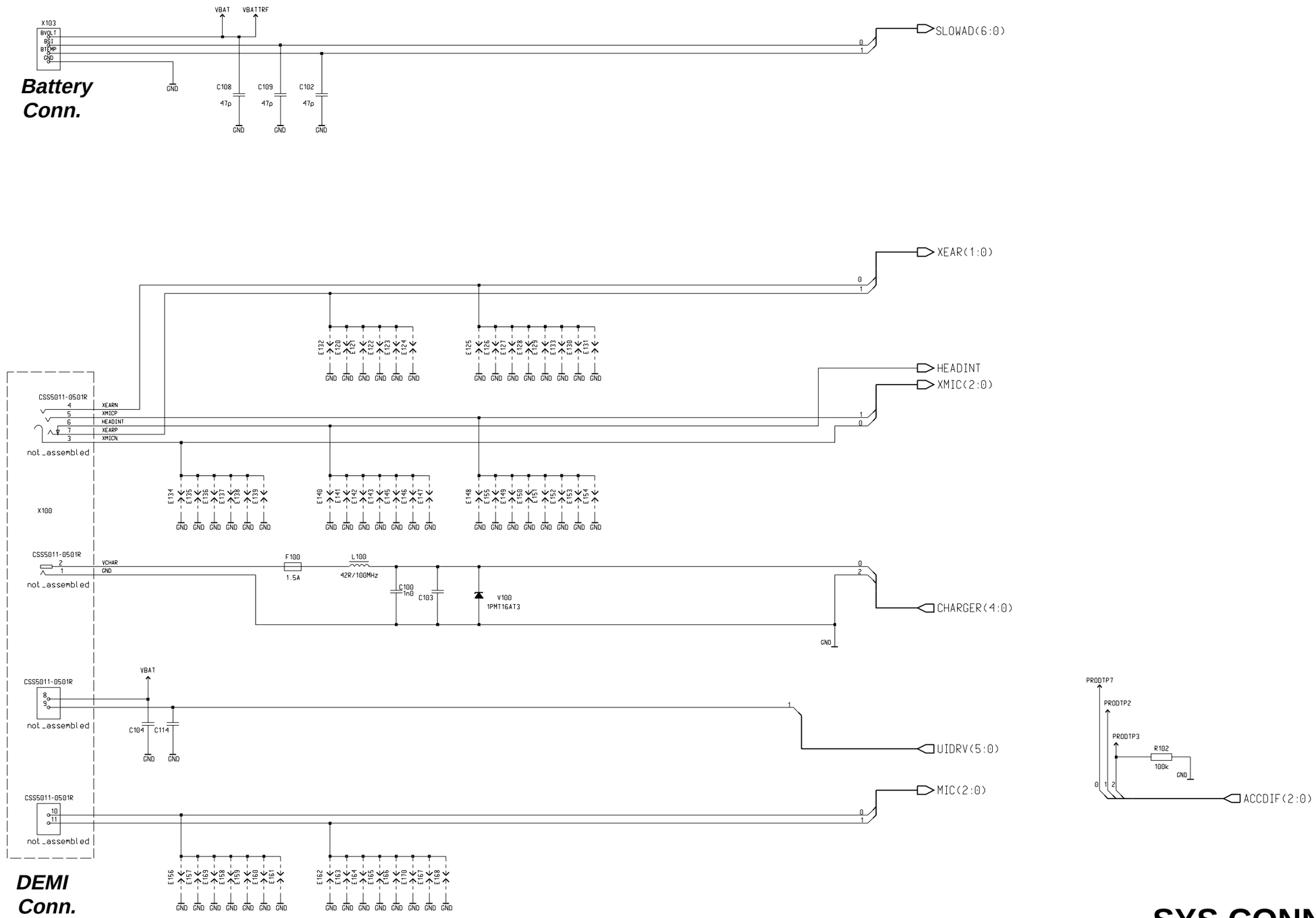
UHF Synthesizer



System Connection



SYS CONN

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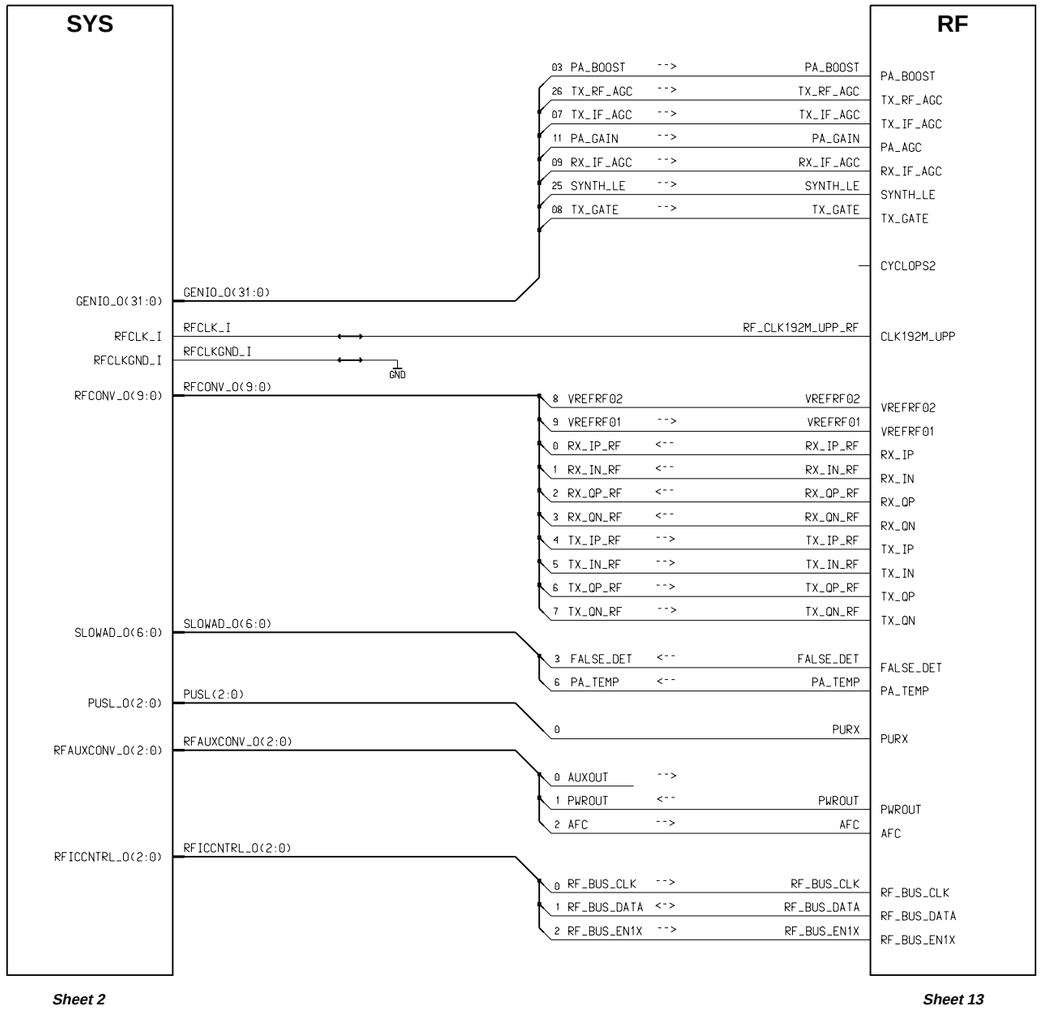
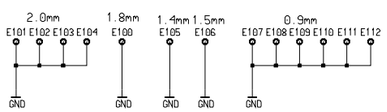
TPL





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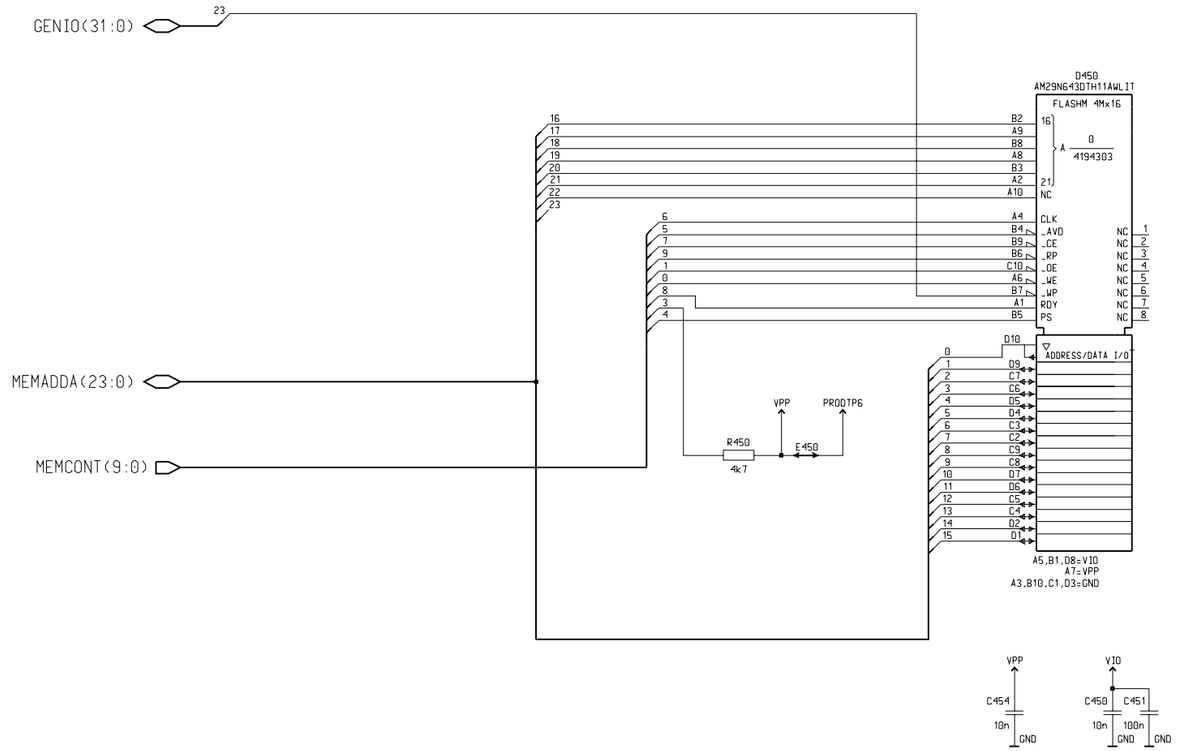
Memory



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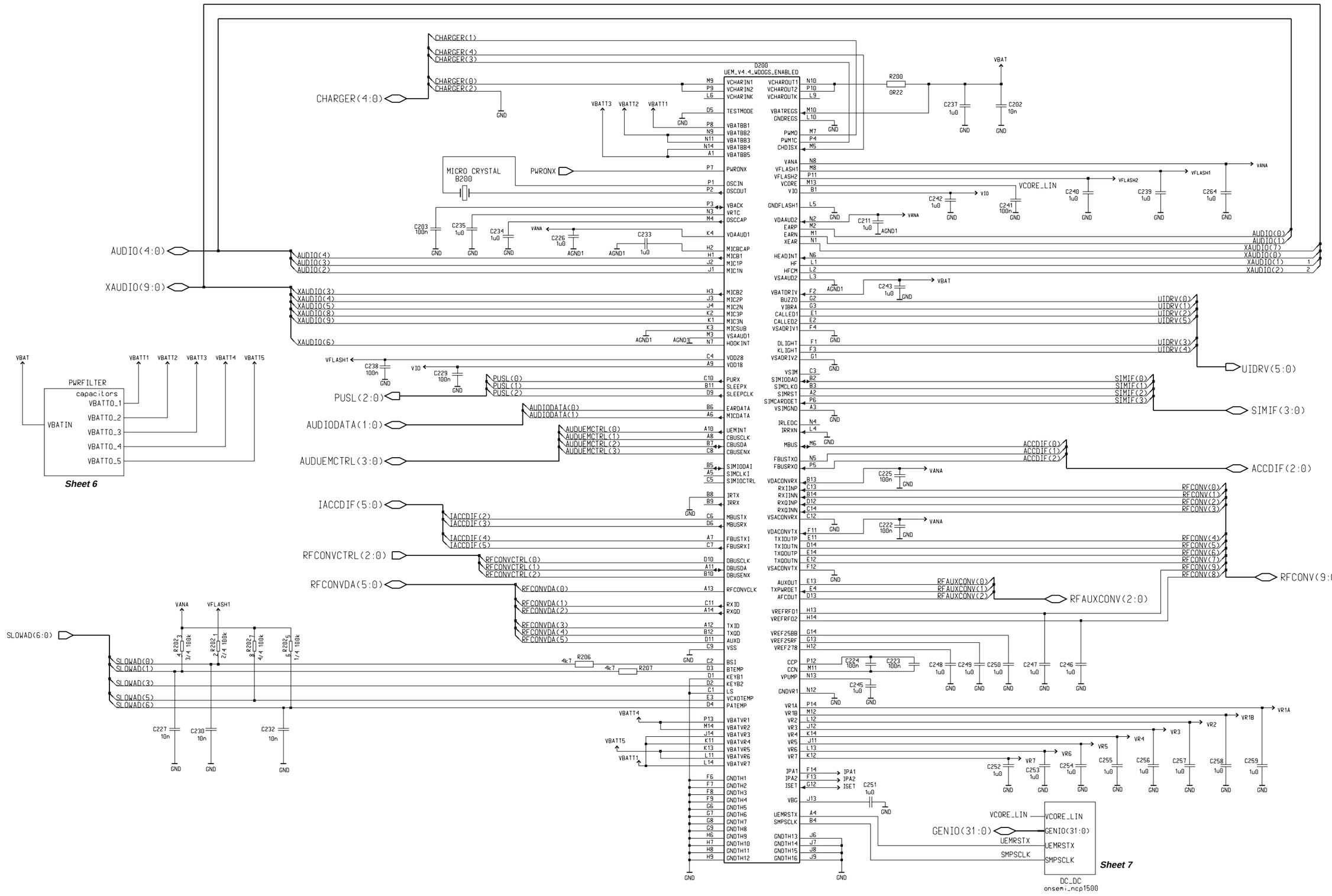
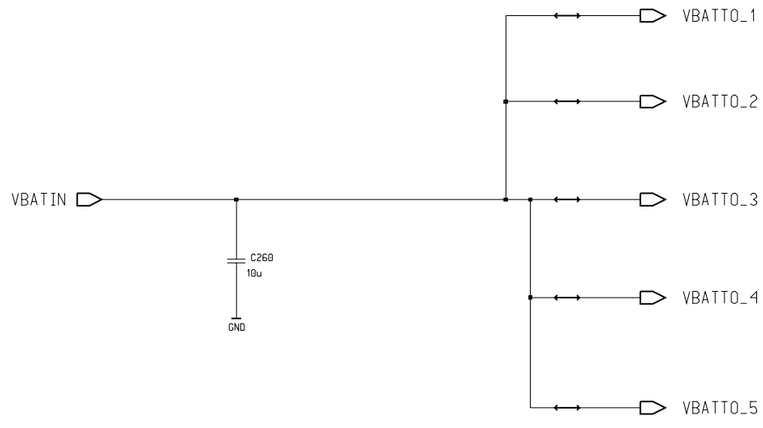
UEM Power


CHARGER(1)
CHARGER(4)
CHARGER(3)
CHARGER(0)
CHARGER(2)
CHARGER(4:0)
D200
UEM_V4.4_WDOGS_ENABLED
VCHARIN1
VCHARIN2
VCHARINK
VCHAROUT1
VCHAROUT2
VCHAROUTK
R200
0R22
VBAT
C237
1u0
C202
10n
TESTMODE
VBATREGS
GNDREGS
VBATT3
VBATT2
VBATT1
VBATBB1
VBATBB2
VBATBB3
VBATBB4
VBATBB5
PWMO
PWM1C
CHDISX
MICRO CRYSTAL
B200
PWRONX
OSCIN
OSCOUT
VBACK
VRTC
OSCCAP
VANA
VFLASH1
VFLASH2
VCORE
VIO
VCORE_LIN
GNDFLASH1
VDAAUD2
EARP
EARN
XEAR
VDAAUD1
MICBCAP
MICB1
MIC1P
MIC1N
AUDIO(4:0)
AUDIO(4)
AUDIO(3)
AUDIO(2)
AUDIO(0)
AUDIO(1)
XAUDIO(7)
XAUDIO(0)
XAUDIO(1)
XAUDIO(2)
HEADINT
HF
HFCM
VSAAUD2
VBATDRIV
BUZZO
VIBRA
CALLED1
CALLED2
VSADRIV1
DLIGHT
KLIGHT
VSADRIV2
XAUDIO(9:0)
XAUDIO(3)
XAUDIO(4)
XAUDIO(5)
XAUDIO(8)
XAUDIO(9)
XAUDIO(6)
MIC2P
MIC2N
MIC3P
MIC3N
MICSUB
VSAAUD1
HOOKINT
UIDRV(0)
UIDRV(1)
UIDRV(2)
UIDRV(5)
UIDRV(3)
UIDRV(4)
UIDRV(5:0)
VSIM
SIMIODAO
SIMCLKO
SIMRST
SIMCARDDET
VSIMGND
SIMIF(0)
SIMIF(1)
SIMIF(2)
SIMIF(3)
SIMIF(3:0)
IRLEDC
IRRXN
MBUS
FBUSTXO
FBUSRXO
ACCDIF(0)
ACCDIF(1)
ACCDIF(2)
ACCDIF(2:0)
VDACONVRX
RXIINP
RXIINN
RXQINP
RXQINN
VSACONVRX
VDACONVTX
TXIOUTP
TXIOUTN
TXQOUTP
TXQOUTN
VSACONVTX
AUXOUT
TXPWRDET
AFCOUT
RFCONV(0)
RFCONV(1)
RFCONV(2)
RFCONV(3)
RFCONV(4)
RFCONV(5)
RFCONV(6)
RFCONV(7)
RFCONV(9)
RFCONV(8)
RFCONV(9:0)
RFAUXCONV(0)
RFAUXCONV(1)
RFAUXCONV(2)
RFAUXCONV(2:0)
VREFRFO1
VREFRFO2
VREF25BB
VREF25RF
VREF27B
CCP
CCN
VPUMP
GNDVR1
VR1A
VR1B
VR2
VR3
VR4
VR5
VR6
VR7
IPA1
IPA2
ISET
VBG
UEMRSTX
SMPSCLK
GNDTH13
GNDTH14
GNDTH15
GNDTH16
PUSL(0)
PUSL(1)
PUSL(2)
PURX
SLEEPX
SLEEPCLK
PUSL(2:0)
AUDIODATA(0)
AUDIODATA(1)
EARDATA
MICDATA
AUDIODATA(1:0)
AUDUEMCTRL(0)
AUDUEMCTRL(1)
AUDUEMCTRL(2)
AUDUEMCTRL(3)
UEMINT
CBUSCLK
CBUSDA
CBUSENX
AUDUEMCTRL(3:0)
SIMIODAI
SIMCLKI
SIMIOCTRL
IRTX
IRRX
IACCDIF(5:0)
IACCDIF(2)
IACCDIF(3)
IACCDIF(4)
IACCDIF(5)
MBUSTX
MBUSRX
FBUSTXI
FBUSRXI
RFCONVCTRL(2:0)
RFCONVCTRL(0)
RFCONVCTRL(1)
RFCONVCTRL(2)
DBUSCLK
DBUSDA
DBUSENX
RFCONVDA(5:0)
RFCONVDA(0)
RFCONVDA(1)
RFCONVDA(2)
RFCONVDA(3)
RFCONVDA(4)
RFCONVDA(5)
RFCONVCLK
RXID
RXQD
TXID
TXQD
AUXD
VSS
BSI
BTEMP
KEYB1
KEYB2
LS
VCXOTEMP
PATEMP
VBATVR1
VBATVR2
VBATVR3
VBATVR4
VBATVR5
VBATVR6
VBATVR7
GNDTH1
GNDTH2
GNDTH3
GNDTH4
GNDTH5
GNDTH6
GNDTH7
GNDTH8
GNDTH9
GNDTH10
GNDTH11
GNDTH12
SLOWAD(6:0)
SLOWAD(0)
SLOWAD(1)
SLOWAD(3)
SLOWAD(5)
SLOWAD(6)
R202_3
3/4 100k
R202_1
2/4 100k
R202_7
4/4 100k
R202_5
1/4 100k
R206
4k7
R207
4k7
C227
10n
C230
10n
C232
10n
C203
100n
C235
1u0
C234
1u0
C226
1u0
C233
1u0
C238
100n
C229
100n
C211
1u0
C242
1u0
C241
100n
C240
1u0
C239
1u0
C264
1u0
C243
1u0
C225
100n
C222
100n
C224
100n
C223
100n
C248
1u0
C249
1u0
C250
1u0
C247
1u0
C246
1u0
C245
1u0
C251
1u0
C252
1u0
C253
1u0
C254
1u0
C255
1u0
C256
1u0
C257
1u0
C258
1u0
C259
1u0
PWRFILTER
capacitors
VBATIN
VBATTO_1
VBATTO_2
VBATTO_3
VBATTO_4
VBATTO_5
VBATT4
VBATT5
Sheet 6
Sheet 7
DC_DC
onsemi_ncp1500
GENIO(31:0)
GENIO(31:0)
GND
AGND1

UEM Power Filter



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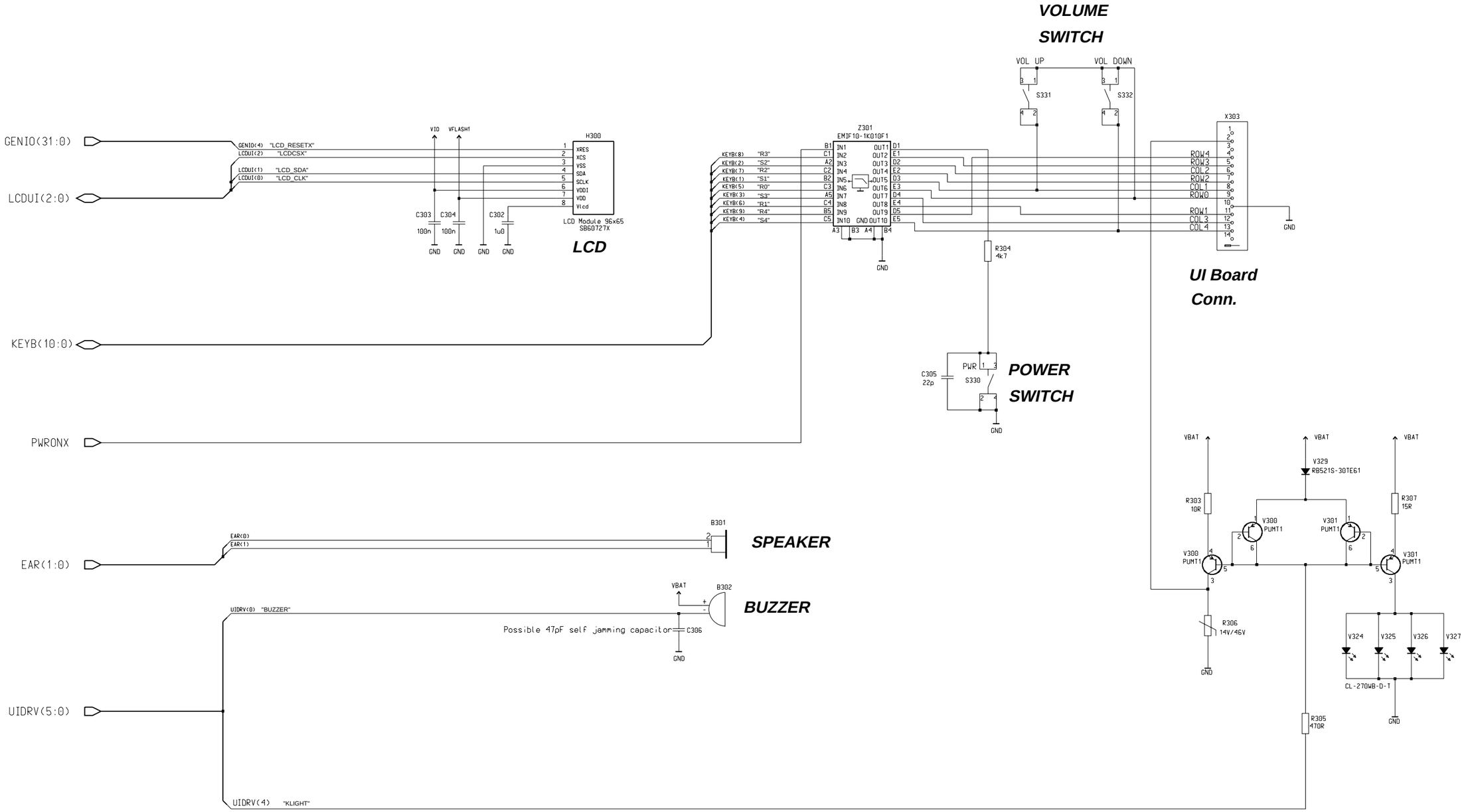
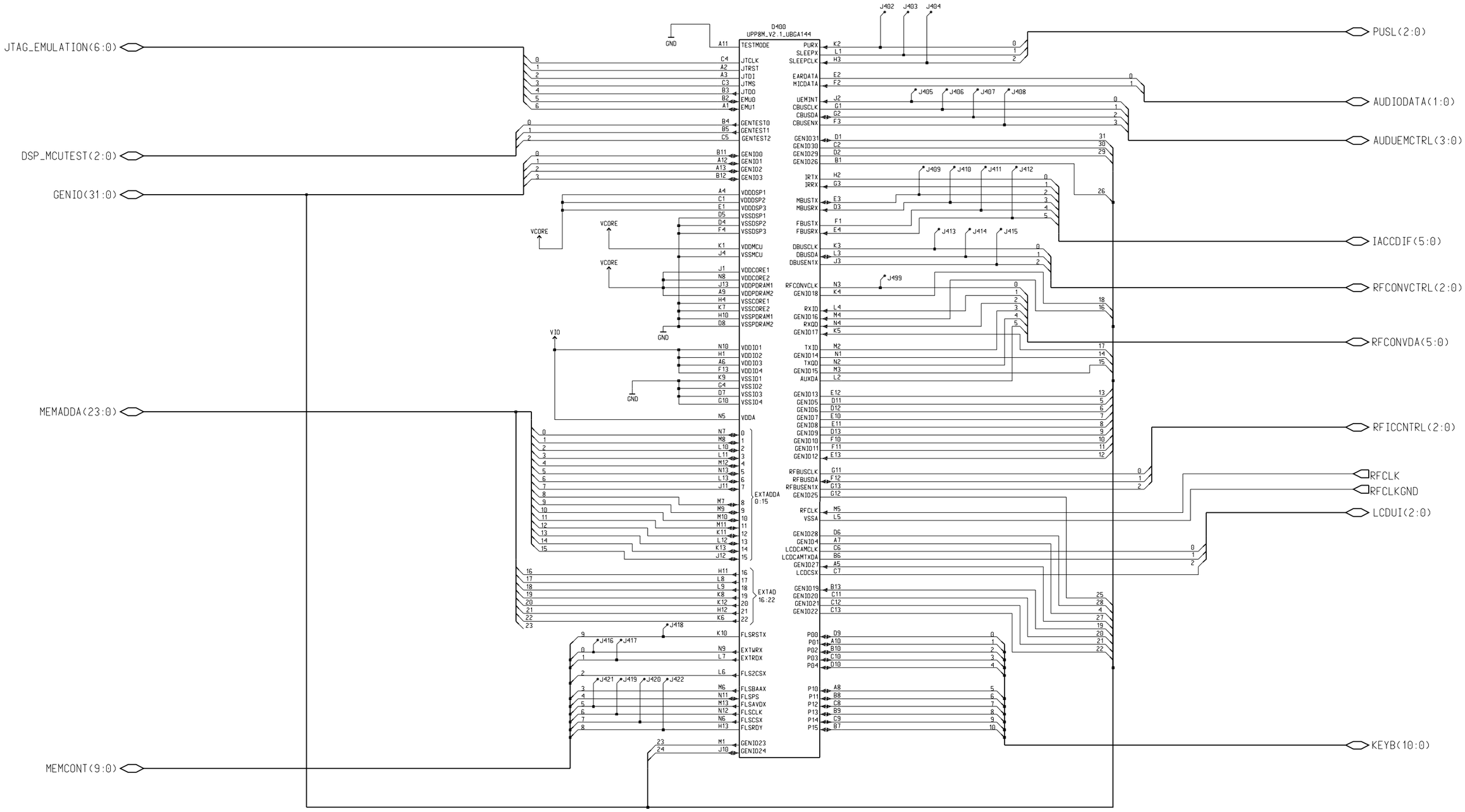
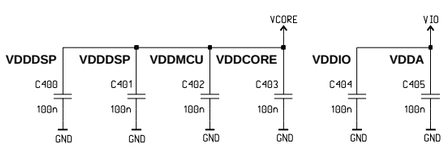
Key-UI


VOLUME
SWITCH
VOL UP
VOL DOWN
S331
S332
Z301
EMIF10-1K010F1
X303
UI Board
Conn.
GENIO(31:0)
LCDUI(2:0)
GENIO(4) "LCD_RESETX"
LCDUI(2) "LCDCSX"
LCDUI(1) "LCD_SDA"
LCDUI(0) "LCD_CLK"
H300
XRES
XCS
VSS
SDA
SCLK
VDDI
VDD
Vlcd
LCD Module 96x65
SB6072TX
LCD
C303 100n
C304 100n
C302 1u0
GND
VIO
VFLASH1
KEYB(10:0)
KEYB(8) "R3"
KEYB(2) "S2"
KEYB(7) "R2"
KEYB(1) "S1"
KEYB(5) "R0"
KEYB(3) "S3"
KEYB(6) "R1"
KEYB(9) "R4"
KEYB(4) "S4"
ROW4
ROW3
COL2
ROW2
COL1
ROW0
ROW1
COL3
COL4
R304
4k7
C305
22p
PWR
S330
POWER
SWITCH
PWRONX
VBAT
V329
RB521S-30TE61
R303
10R
R307
15R
V300
PUMT1
V301
PUMT1
R306
14V/46V
V324
V325
V326
V327
CL-270WB-D-T
R305
470R
EAR(1:0)
EAR(0)
EAR(1)
B301
SPEAKER
BUZZER
B302
UIDRV(0) "BUZZER"
Possible 47pF self jamming capacitor
C306
UIDRV(5:0)
UIDRV(4) "KLIGHT"

KEY_UI

UPP





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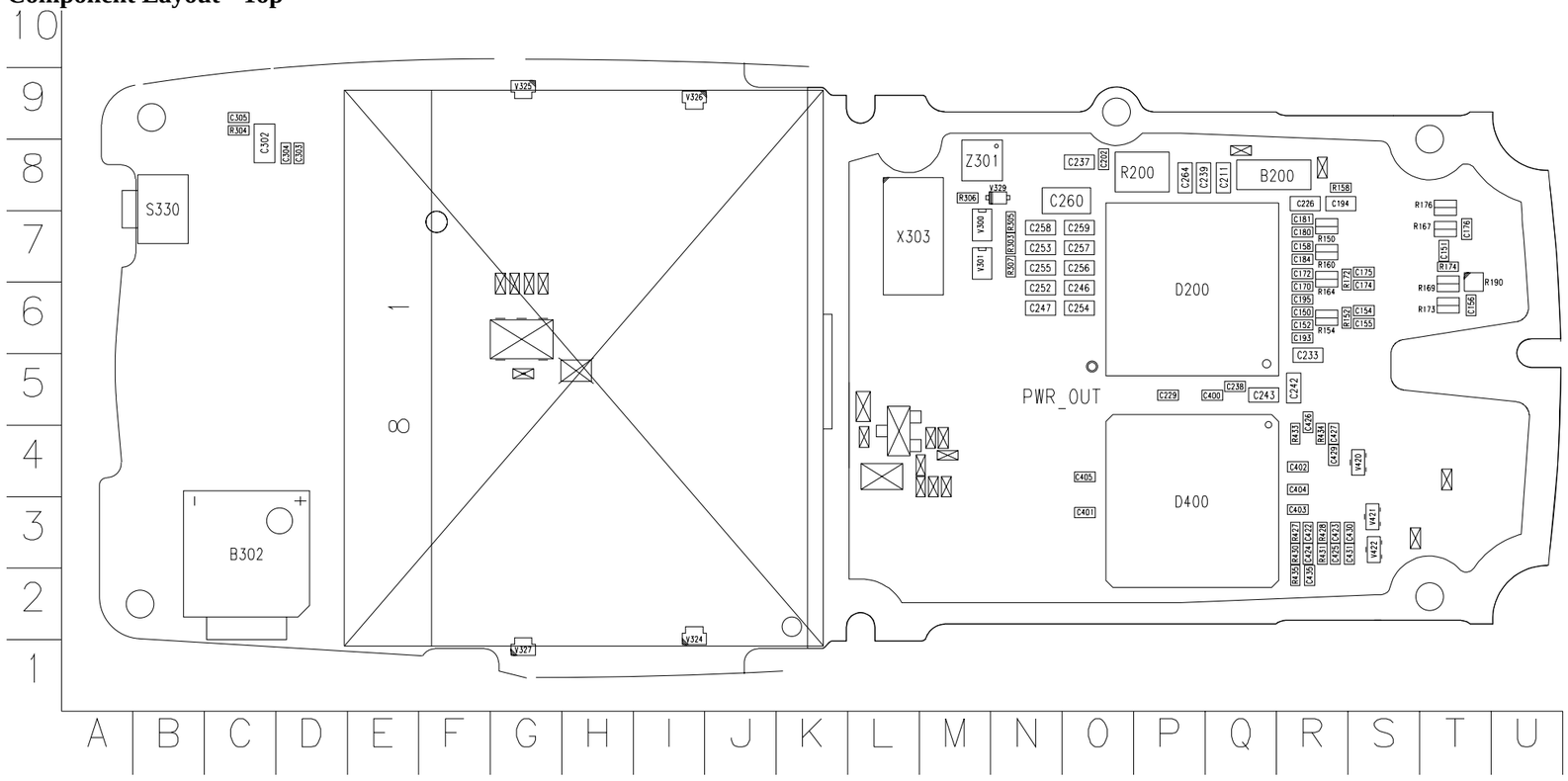
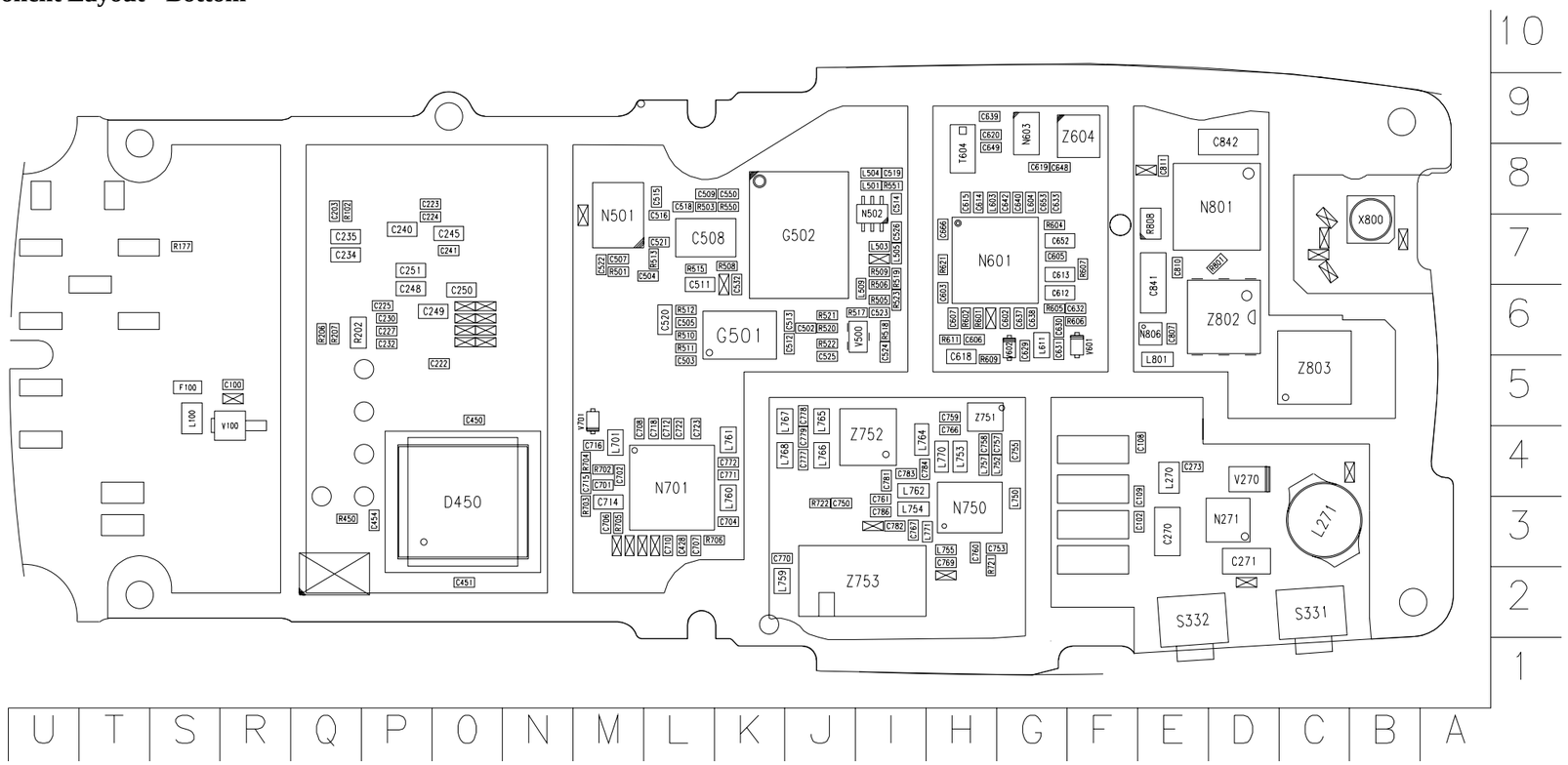
Component Layout - Top



Component Layout - Bottom



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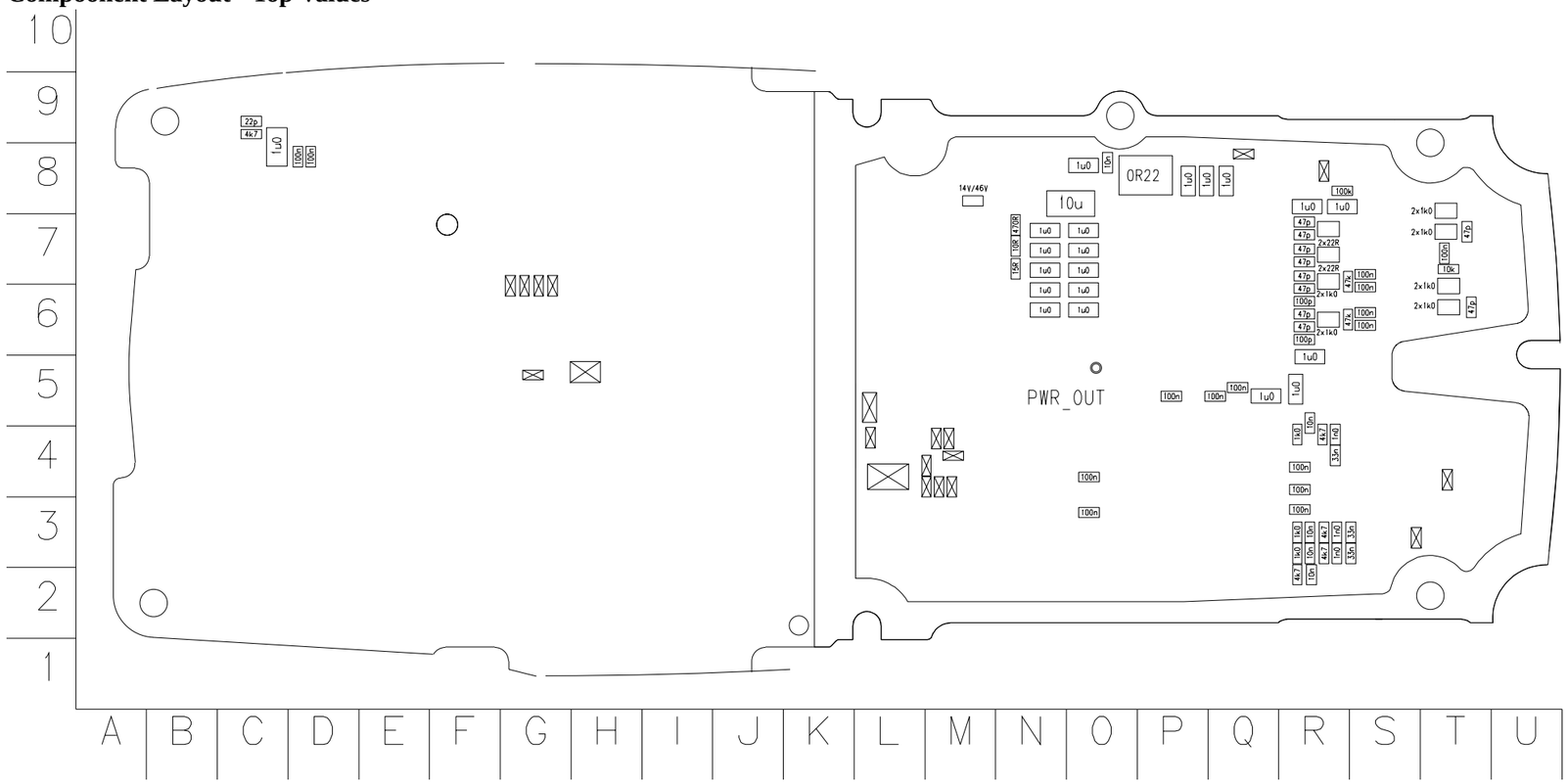
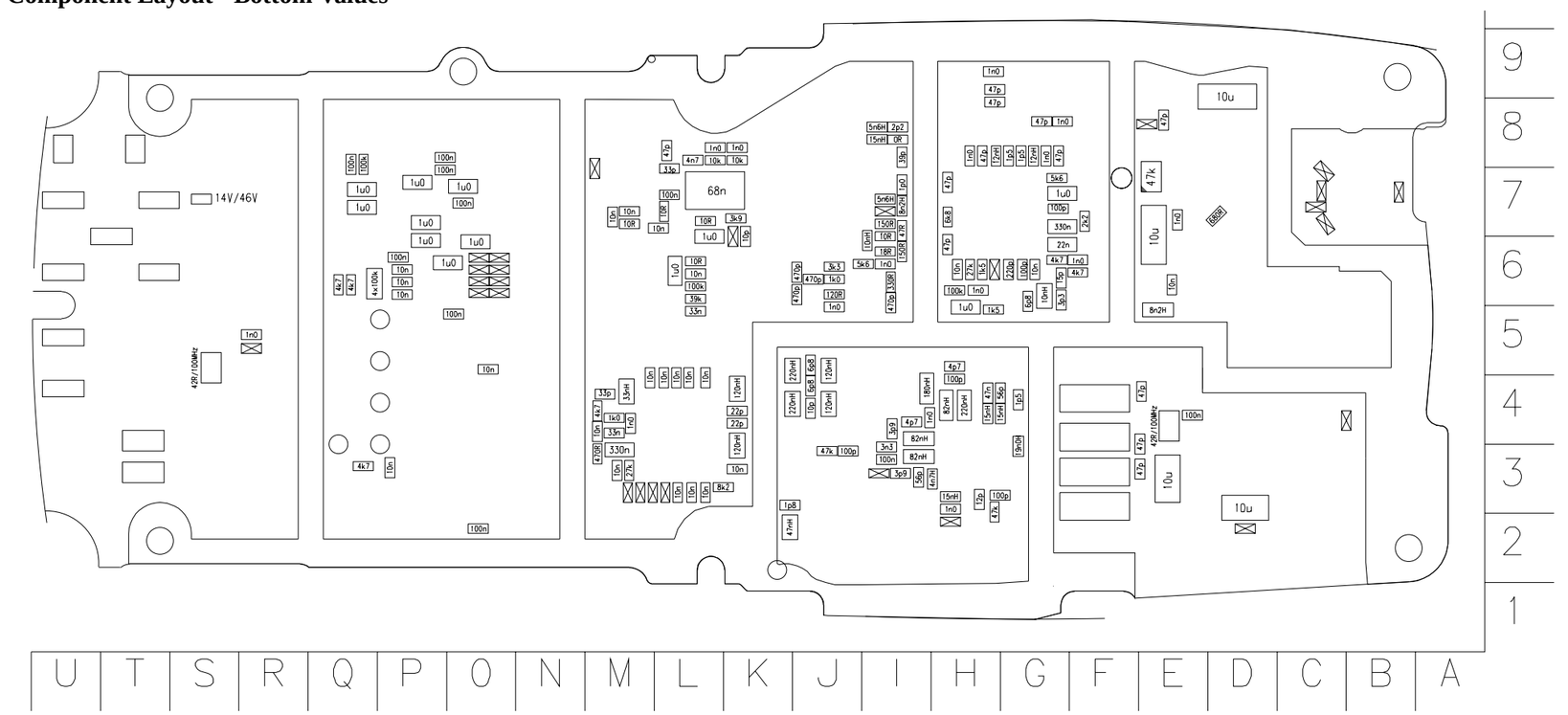
Compoonent Layout - Top Values



Component Layout - Bottom Values



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